

CLAIMS

1. A control mechanism for a planetary manual transmission having multiple synchronizers each having a neutral position and at least one engaged position and a plurality of shift rails adapted to move the synchronizers, said control mechanism comprising:

5 a plurality of slotted members each having a distinct slot for each individual shift rail;

 a control pin aligned in each of said slot configurations in each of slotted members; and

 means for manipulating said members individually to enforce

10 selective movement of said pins to thereby control at least two synchronizers into respective engaged positions.

2. The control mechanism defined in Claim 1 further comprising: at least one of said slotted members being a neutral member; and the remaining slotted members being ratio control members.

3. The control mechanism defined in Claim 1 further comprising: at least one of said four members being a reverse ratio control

member.

4. The control mechanism defined in Claim 3 further wherein:

 at least three of said slotted members are moveable to individually establish at least two ratios.

5. The control defined in Claim 1 further wherein:

 each of said slotted members is a substantially flat plate member;

and

each of said flat plate members having a pair of spaced
5 longitudinal grooves that are nested when all of the plate members are
positioned in a neutral position.

6. The control mechanism defined in Claim 5 further wherein:
each of said grooves has a predetermined depth and a movement
of one of said plate members from the neutral position to a ratio position
causing the remaining plate member to be moved vertically a distance equal
5 to twice said predetermined depth.

7. The control mechanism defined in Claim 1 further wherein:
each of said slotted members is a tubular structure.